

Date: Thu, 28 Jan 93 04:30:14 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #123  
To: Info-Hams

Info-Hams Digest                      Thu, 28 Jan 93                      Volume 93 : Issue 123

Today's Topics:

    Burglars are brighter than you might think!  
    Computer power supplies and radios.  
    help needed repairing yaesu FT209  
    Notebook PC at CW Exam?  
    Yaesu FT-530 Monophone!?!?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 27 Jan 93 17:34:32 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!hri.com!noc.near.net!  
lynx!lkay@network.UCSD.EDU  
Subject: Burglars are brighter than you might think!  
To: info-hams@ucsd.edu

In article <1k6cikINN56p@west.West.Sun.COM>,  
flloyd@l1-a.West.Sun.COM (Fred Lloyd [Phoenix SE]) writes:

>  
> Very good subject. I don't think that this can be understated. I make  
> it a personal practice NEVER to discuss vacation plans over the air.  
>

Or anything else, as Fred points out, like "I've got to cook my own  
dinner when I get home, since everyone's out", etc. etc.

Remember, ham radio has no monopoly on this - I also make it a point  
never to discuss such topics on my \*cordless telephone\*. Granted, the

range on most is severely limited, but I can maintain contact at 100-200 yards away and more from my house, certainly within the range of neighborhood scanners.....

Len

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Dr. Leonard Kay, KB2R                | "But we are not dealing with the
Electrical and Computer Engineering | normal world. We are chasing DX."
Northeastern University, Boston      | -- W9KNI, 'The Complete DXer'
NU ARC: W1KBN 145.31(-)              |
Packet: KB2R@K1EA                   | #include <disclaimer.h>
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Date: Wed, 27 Jan 93 16:41:37 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!uwm.edu!linac!att!
cbnewsc!cbfsb!att-out!walter!porthos!dancer!whs70@network.UCSD.EDU
Subject: Computer power supplies and radios.
To: info-hams@ucsd.edu
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In article <26JAN93.23285391@nauvax.ucc.nau.edu> cvm@nauvax.ucc.nau.edu writes:

>I have seen several posts saying that it is easy to use a computer power supply  
>to power a radio. I remember an old post talking about using the computer  
>supply to charge a deep cycle battery and power the radio, but I can't find it.  
>Right now I am running my radio off a deep cycle battery and charging it with  
>an automotive charger as needed. I would like to use the power supply to  
>charge the battery/power the radio. How can I do this?

>

>I have a 150 watt power supply, a group 27 deep cycle battery and a mobile two  
>meter radio (Alinco DR-110T). I know the radio does not draw more than 15 amps  
>(the fuses are 15 amps) on high power, but don't know exactly how much it does  
>draw. The power supply does not have any amperage ratings on it, but I am  
>afraid it would not supply enough current for high power transmitting. The  
>power supply provides 5, 7 and 12 volts (approx) on the various connectors. 12  
>volts would probably be enough to run the radio but not charge the battery.  
>Do I have to modify the power supply to get a high enough voltage to charge the  
>battery? Also I need some overcharging protection. Any help would be greatly  
>appreciated.

You can probably use everything just the way you have it without using the automobile battery charger:

The power supply output current at 12 volts (150 watts) has a theoretical output current of 12.5 amps ( $I=W/E$ ). The high power rating of the Alinco DR-110T is probably 50 watts or so and that current draw

at 12 volts would, therefore, be at least 4 amps. Even if we double that current rating to account for inefficiencies, etc, you still only have 8 amps draw leaving a "safety" margin of an additional 4.5 amps. If the Alinco high power rating is less than 50 watts, the numbers are even more favorable.

One thing that could alter this assessment is if the 150 watt rating is a combined rating for all the outputs (the 5, 7 and 12 volts combined.) For example, the 150 watts could be indicative of the 12 volt tap supplying 2 amps (44 watts), the 7 volt tap supplying 2 amps (14 watts) and the 5 volt tap supplying about 17 amps (85 watts) which brings the total power consumption to the 150 watt rating.

If that's the case, the 12 volts tap would not have enough output current to run the Alinco totally by itself when transmitting, but with the battery in the circuit as described, you shouldn't have a problem with current supply. What this arrangement would possibly require is a current limiting resistor in series with the 12 volt power supply tap to avoid placing too high a current demand on the 12 volt output when you transmit.

The 12 volt output should be adequate to charge the battery, even if the voltage is exactly 12.0. Theoretically, the voltage should be equal to 12.6 volts or greater, but you won't ruin or otherwise destroy the battery if the power supply is exactly 12.0 volts. If you actually measure the output voltage of the power supply you may find the no load voltage to be something greater than 12.0 volts (probably around 13) which would be fine to keep the battery fully charged. As to overcharging protection, unless the no load voltage of the 12 volts is considerably greater than 12.6 volts (if it is over 14 volts or so) you shouldn't need any "overcharge protection." Remember, if you use the setup you describe, the maximum current (charging current) you can have going through the battery would be the 150 watt maximum rating of 12.5 amps. That's considerably less than the charging current and voltages the battery is presented with in an automobile. Output voltages and charging currents from an automobile alternator range as high as 15-16 volts and as much as 60 amps or more, especially for "heavy duty" alternators in vehicles with air conditioning, etc.

Automobile batteries are pretty robust things and take an amazing amount of punishment in normal use. The "setup" you propose should be far less demanding of the battery than normal use would otherwise be.

Standard Disclaimer- Any opinions, etc. are mine and NOT my employer's.

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Bill Sohl (K2UNK) BELLCORE (Bell Communications Research, Inc.)

Morristown, NJ                      email via UUCP              bcr!cc!whs70  
201-829-2879 Weekdays           email via Internet      whs70@cc.bellcore.com

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Date: Wed, 27 Jan 1993 12:11:42 EST  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!caen!malgudi.oar.net!  
news.ysu.edu!psuvm!j9n@network.UCSD.EDU  
Subject: help needed repairing yaesu FT209  
To: info-hams@ucsd.edu

net.help needed!!!

I managed to damage the bnc connector on my Yaesu FT209 ht.  
Does anyone know how to take this particular ht apart so I  
can get in and resolder the connector? I tried removing the screws  
around the perimeter but the cases were holding together fast.  
The repair is easy enough, but I dont want to damage the ht  
in the process.

thanks!

Jeff,      nucci@microwave.gsfc.nasa.gov  
            j9n@psuvm.psu.edu

all (yaesu) flames to /dev/null

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Date: Wed, 27 Jan 1993 16:31:49 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!howland.reston.ans.net!  
paladin.american.edu!gatech!concert!rock!taco!csemail.cropsci.ncsu.edu!  
samodena@network.UCSD.EDU  
Subject: Notebook PC at CW Exam?  
To: info-hams@ucsd.edu

In article <1993Jan27.144537.23958@magnus.acs.ohio-state.edu>  
rlong@magnus.acs.ohio-state.edu (Ronald K Long) writes:

>  
>The title tells it all. Is it allowed to use a word  
>processor in the form of a notebook PC to copy code  
>during a VEC administered exam?  
>  
>Is it up to the individual VEC group to make their  
>own rule?  
>Ron W8GUS

If someone walked into the Raleigh ARS VE session next week (we give



>Does it have a Yaesu standard 99 pin connector to radio or does it go  
>with audio at monophone plugs?

It's transferred over the standard speaker mic connector. I just received  
one for my 530 and I'm very impressed. Only down side might be the  
increased battery drain, but I doubt the display draws much since it's LCD.

- - - - -  
Marc Grant  
Phone# 214/530-9488

Amateur Call: N5MEI  
Internet: marchbg@feenix.metronet.com

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End of Info-Hams Digest V93 #123  
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